

For Research Use Only

iNOS Polyclonal antibody

Catalog Number: 18985-1-AP

Featured Product

889 Publications



Basic Information

Catalog Number:

18985-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000625

GeneID (NCBI):

4843

UNIPROT ID:

P35228

Full Name:

nitric oxide synthase 2, inducible

Calculated MW:

131 kDa

Observed MW:

110-130 kDa, 65-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:4000

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IF, FC (Intra), IP, ELISA

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, chicken, bovine

Positive Controls:

WB: mouse liver tissue, rat liver tissue

IF/ICC: HepG2 cells, HeLa cells

FC (Intra): HepG2 cells,

Background Information

NOS2, also named as iNOS and NOS2A, produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. NO is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission, antimicrobial and antitumoral activities. NOS2 is a nitric oxide synthase which is expressed in liver and is inducible by a combination of lipopolysaccharide and certain cytokines. iNOS has a very short half-life due to rapid degradation by calpain. iNOS monomer is a direct substrate of calpain I and can be cleaved by calpain I at the canonical CaM-binding site(503-532aa) of iNOS, and then a ~70 kDa band can be detected by western (PMID:11786228). This antibody is specific to NOS2.

Notable Publications

Author	Pubmed ID	Journal	Application
Lin-Tao Xu	34601084	J Ethnopharmacol	WB
Yan Yang	34582523	Biomater Sci	IF
Haoyu Guo	36201949	Biomaterials	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

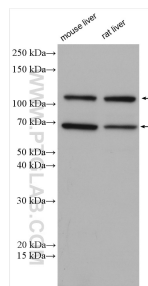
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

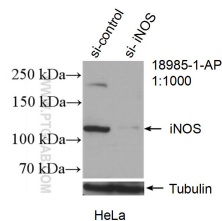
E: proteintech@ptglab.com
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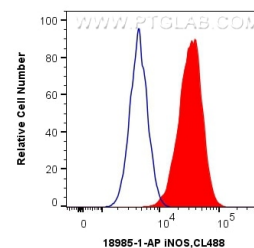
Selected Validation Data



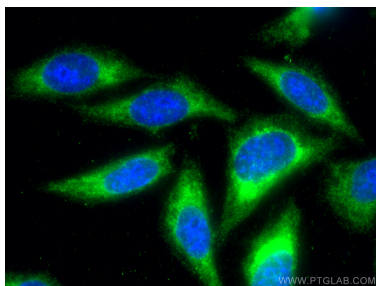
Various lysates were subjected to SDS PAGE followed by western blot with 18985-1-AP (iNOS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of iNOS antibody (18985-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-iNOS transfected HeLa cells.



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human iNOS (18985-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using iNOS antibody (18985-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).